Copy 106
8 Pages

[redacted]

NPIC/R-385/64
June 1964

PHOTOGRAPHIC INTERPRETATION REPORT

MOSCOW TUSHINO PLANTS NO 82 AND NO 500 USSR

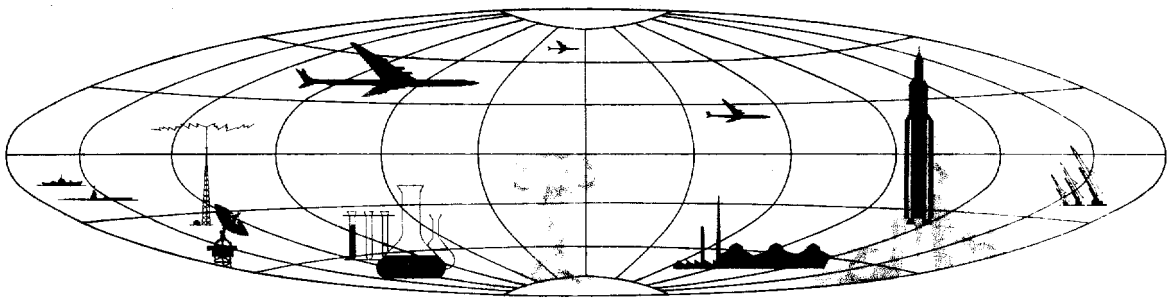
CIA DIA

Handle Via TALENT-KEYHOLE Control Only

WARNING

This document contains classified information affecting the national security of the United States within the meaning of the espionage laws U. S. Code Title 18, Sections 793 and 794. The law prohibits its transmission or the revelation of its contents in any manner to an unauthorized person, as well as its use in any manner prejudicial to the safety or interest of the United States or for the benefit of any foreign government to the detriment of the United States. It is to be seen only by personnel especially indoctrinated and authorized to receive TALENT-KEYHOLE information. Its security must be maintained in accordance with KEYHOLE and TALENT regulations.

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



MOSCOW TUSHINO PLANTS NO 82 AND NO 500
USSR

SUMMARY

Moscow Tushino Plant No 82 was an aircraft manufacturing plant during World War II and was probably associated with Moscow Tushino Plant No 500 which produced aircraft engines at that time. Plant No 82 is a suspect missile production plant, and Plant No 500 is a possible producer of missile engines. Both plants have been expanded, particularly Plant No 82. A taxiway which connected Plant No 82 with the nearby Moscow/Khimki Airfield has been eliminated. The scale and quality of available photography of the plants do not permit either confirmation or negation of the production of missiles and missile engines; however, collateral evidence indicates that missiles are produced at Plant No 82.

INTRODUCTION

Moscow Tushino Plants No 82 and No 500 are situated in the northwest quadrant of Moscow and are separated by the Skhodnya Canal (Figures 1 and 2). During World War II, Tushino Plant No 82 was an aircraft manufacturing plant, and it was connected by a taxiway with the nearby Moscow/Khimki Airfield which served as a fly-away field. Tushino Plant No 500 produced aircraft engines during World War II.

25X1D

25X1D

25X1D

25X1D

25X1D

German photography of [redacted] has provided basic information about the wartime layout of the two plants. No usable photographic coverage of the area was obtained between [redacted] Four KEYHOLE (KH-4) missions covered the plants between [redacted] but this photography is of only fair quality.

The proximity of Plant No 500 to Plant No 82 suggests an interrelationship which probably obtained during World War II and immediately thereafter when Plant 82 was producing aircraft for which Plant 500 probably supplied the en-

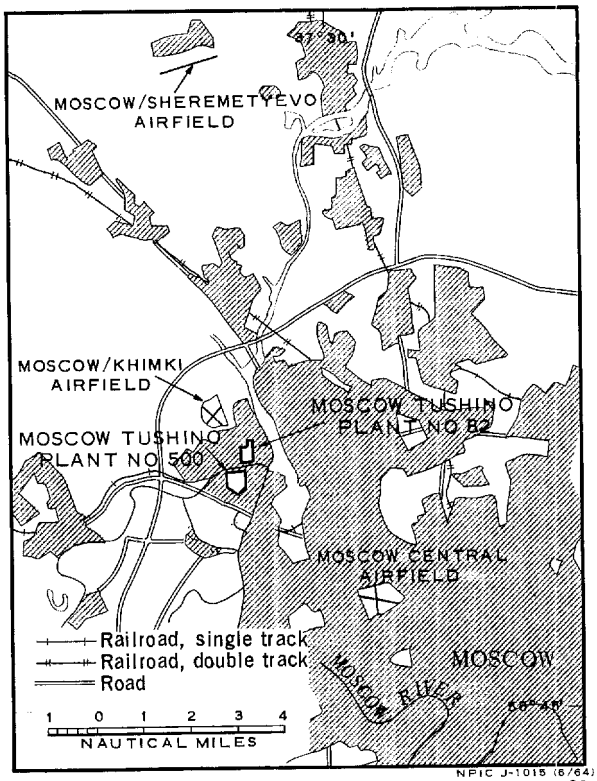


FIGURE 1. LOCATION OF MOSCOW TUSHINO PLANTS NO 82 AND NO 500, USSR.

gines. This relationship may no longer apply; photographic evidence neither confirms nor denies a functional relationship between the two plants.

25X1A

MOSCOW TUSHINO PLANT NO 82

25X1D

25X1D

Moscow Tushino Plant No 82 (Moscow Tushino Aircraft Plant No 82; [redacted] is situated in the northwest quadrant of Moscow at 55-50-[redacted]N 37-27-[redacted]E (Figures 1 and 2). Collateral evidence indicates 1) that much of the plant expansion occurred between [redacted] and 2) that the plant is engaged in the production of missiles. 1/ Because of the great time lapse in photographic coverage, it can only be said that approximately 750,000 square feet of roof coverage were added to the plant between [redacted] During that period the concrete taxiway from the plant to the Moscow/Khimki Airfield was eliminated, and the intervening land between the plant and the airfield was covered with buildings; consequently, there is now no way to move aircraft of any considerable size out of the plant.

Figures 2 and 3 show the layout of the plant and its principal buildings; construction accomplished since [redacted] is indicated on Figure 3. Building 6 (Figure 3) has twice undergone enlargement, and the configuration of its roof has apparently been modified from an arched type to a sawtooth type along the eastern side of the building. The plant is secured by a wall, the approximate alignment of which is shown on Figure 3. A rail spur enters the western side of the plant area and terminates near the northeastern corner of the walled area.

The presumed functions and approximate dimensions of the principal structures in Plant No 82 are listed in Table 1. Item numbers in this table are keyed to Figure 3.

25X1D

25X1A 25X1D 25X1D

MOSCOW TUSHINO PLANT NO 500

25X1A

25X1D

Moscow Tushino Plant No 500 (Moscow Aircraft Engine Plant Tushino No 500; [redacted] is situated immediately south of Plant No 82 at 55-50-[redacted]N 37-26-[redacted]E (Figures 1 and 2). The plant appears to be enclosed by a wall, the approximate alignment of which is shown on Figure 4. A rail spur enters the plant from the south and terminates near the center of the walled area. There is some indication that interior walls which in [redacted] divided the present plant into three separately secured areas may still exist; this suggests that the area west of the rail spur may not be a part of the subject plant.

Figures 2 and 4 show the layout of the plant and its principal buildings, and Figure 4 also indicates [redacted] construction. Approximately 400,000 square feet of roof coverage have been added to the plant since [redacted] The engine test facility (item 7, Figure 4), which has eight U-type test cells, was present in [redacted] The wings on a light engineering building (item 27) may possibly be large L-type test cells.

There is no photographic evidence which indicates either the types or the quantities of engines that are probably produced in Plant No 500. Also, except for the U-type test cells and the possible L-type cells, there is no photographic evidence which indicates that the subject plant is engaged in the manufacture of missiles and/or of engines for either missiles or aircraft.

The presumed functions and approximate dimensions of the principal facilities in Plant No 500 are listed in Table 2. Item numbers in this table are keyed to Figure 4.

FIGURE 2. MOSCOW TUSHINO PLANTS NO 82 AND NO 500, [redacted]

25X1D

Table 1. Description of Facilities, Moscow Tushino Plant No 82 (Item numbers are keyed to Figure 3)

Item	Description	Dimensions (ft)	Roof Coverage (sq ft)
1	Probable shop	220 x 50	11,000
2	Probable shop	50 x 40	2,000
3	Storage warehouse	210 x 50	10,500
4	Administration bldg	130 x 65	8,450
5	Administration bldg	210 x 80	16,800
6	Assembly hall	Irregular	544,975
7	Suspect testing bldg	300 x 120	36,000
8	Possible warehouse	250 x 145	36,250
9	Probable shop	155 x 65	10,075
10	Probable shop	105 x 40	4,200
11	Shipping/receiving warehouse	Irregular	30,900
12	Storage warehouse	130 x 50	6,500
13	Possible engineering bldg	Irregular	2,000
14	Boilerhouse	275 x 65	17,875
15	Possible parts manufacturing bldg	510 x 355	181,050
16	Parts manufacturing bldg	Irregular	142,800
17	Parts manufacturing bldg	250 x 80	20,000
18	Parts manufacturing bldg	290 x 80	23,200
19	Possible maintenance shop	130 x 80	10,400
20	Boilerhouse	90 x 65	5,850
21	Probable shop	185 x 130	24,050
22	Possible parts manufacturing bldg	Irregular	162,200
23	Storage warehouse	120 x 40	4,800
24	Storage warehouse	130 x 50	6,500
25	Main raw materials warehouse	290 x 260	75,400
26	Possible maintenance bldg	220 x 145	31,900
27	Possible office bldg	130 x 40	5,200
28	Possible office bldg	195 x 40	7,800
29	Possible office bldg	120 x 40	4,800
30	Possible office bldg	155 x 40	6,200
31	Storage bldg	Irregular	78,725
		Total	1,528,400

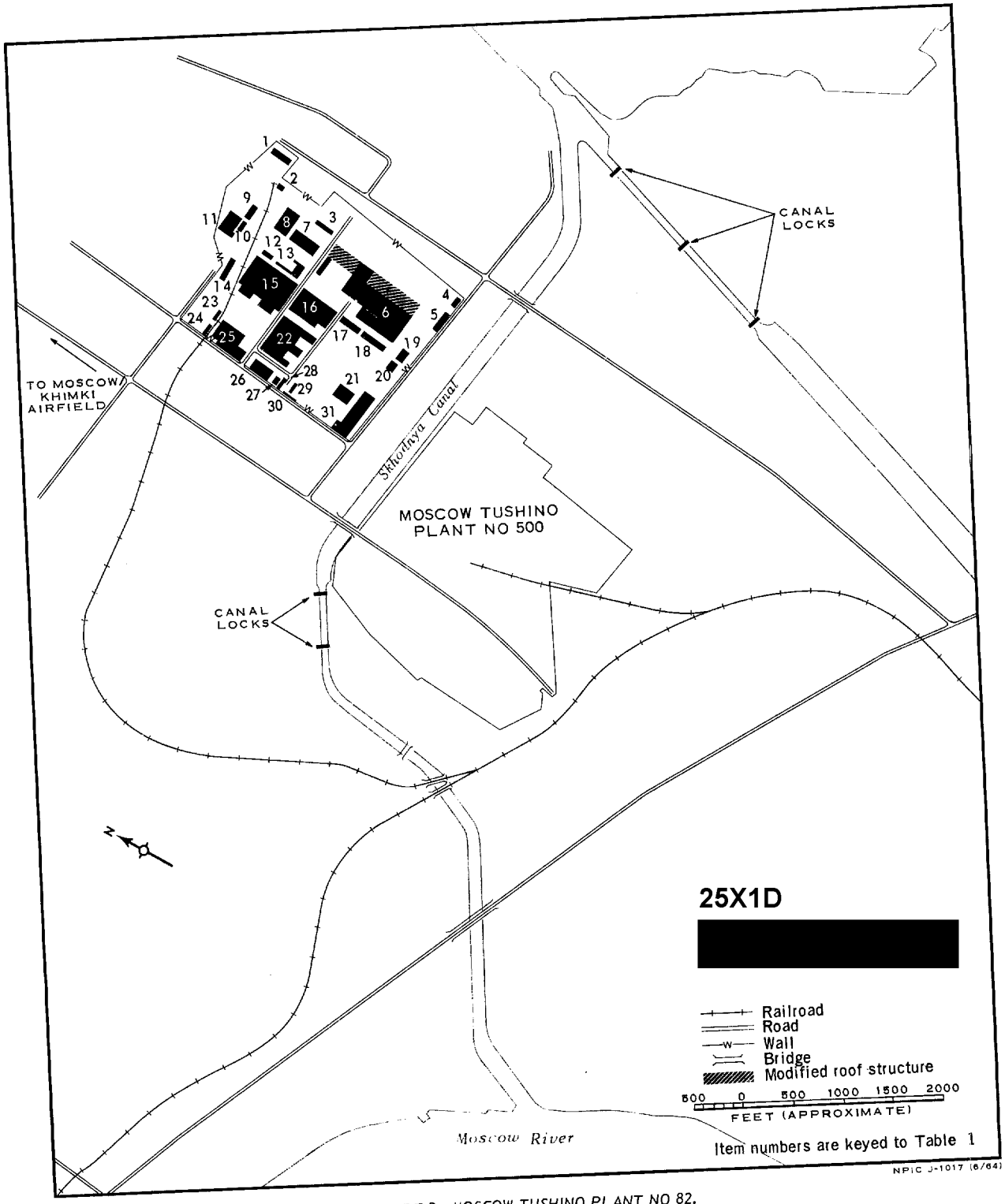


FIGURE 3. MOSCOW TUSHINO PLANT NO 82.

Table 2. Description of Facilities, Moscow Tushino Plant No 500
(Item numbers are keyed to Figure 4)

Item	Description	Dimensions (ft)	Roof Coverage (sq ft)
1	Boilerhouse	235 x 65	15,275
2	Shipping/receiving warehouse	195 x 190	37,050
3	Maintenance bldg	Irregular	16,675
4	Assembly bldg	355 x 340	120,700
5	Probable machine shop	600 x 210	126,000
6	Machine shop	575 x 535	307,625
7	Engine test facility	395 x 240	94,800
8	Machine shop	420 x 365	153,300
9	Administration bldg	600 x 80	48,000
10	Engineering bldg	360 x 65	23,400
11	Unidentified installation	Irregular	27,300
12	Shipping/receiving warehouse	130 x 65	8,450
13	Shipping/receiving warehouse	185 x 90	16,650
14	Shipping/receiving warehouse	185 x 90	16,650
15	Shipping/receiving warehouse	195 x 80	15,600
16	Foundry	395 x 155	61,225
17	Warehouse	115 x 50	5,750
18	Lathe shop	380 x 80	30,400
19	Forge	300 x 105	31,500
20	Shop bldg	260 x 260	67,600
21	Open storage area	260 x 235	61,100
22	Unidentified installation	Irregular	34,550
23	Warehouse	290 x 65	18,850
24	Possible storage bldg	355 x 185	65,675
25	Possible machine shop	260 x 220	57,200
26	Possible maintenance shop	130 x 25	3,250
27	Light engineering bldg	Irregular	178,525
		Total	1,643,100

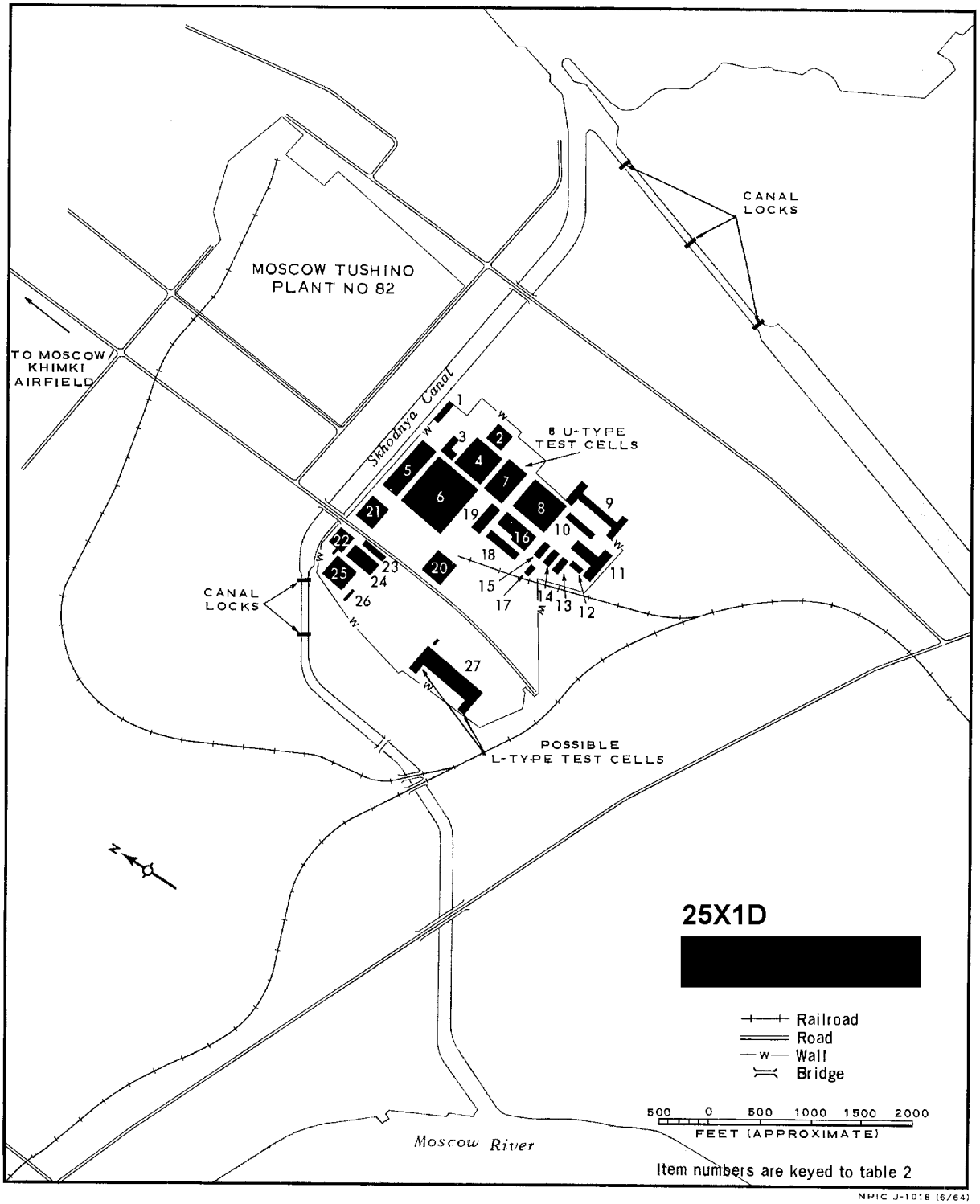


FIGURE 4. MOSCOW TUSHINO PLANT NO 500.

REFERENCES

PHOTOGRAPHY 25X1D

[redacted]

MAPS OR CHARTS

ACIC. US Target Complex Mosaic, Series 25, Sheet 0167-9998-16-25MA, 2d ed, Dec 53, scale 1:25,000 (SECRET)

ACIS. USAF Target Mosaic, Series 10, Sheet 0167-0396-10MA, 1st ed, Sep 51, scale 1:10,000 (SECRET)

DOCUMENTS

1. CIA. Plant Folder 8006754, Supplement II ECIC 22/43(2012), *Tushino Aircraft Engine Experimental Plant (Detail of Southern Part of Plant)*, 20 Oct 48 (CONFIDENTIAL)

REQUIREMENT

CIA. ORR/C-RR4-81,334

NPIC PROJECT

N-511/64 (partial answer)

Approved For Release 2000/05/09 : CIA-RDP78B04560A002300010073-3
TOP SECRET